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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,230	12/08/2003	Bishnu P. Gogoi	SC12116ZP	2513
23125 7.	590 12/16/2005		EXAMINER	
FREESCALE	SEMICONDUCTO	ESTRADA, MICHELLE		
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AUSTIN, TX		2823		

DATE MAILED: 12/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	*
	10/730,230	GOGOI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michelle Estrada	2823	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence addre	:SS
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIO R 1.136(a). In no event, however, may a r riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this comminant of the comminant	
Status			
1)⊠ Responsive to communication(s) filed on 0 2a)□ This action is FINAL . 2b)⊠ 3 3)□ Since this application is in condition for allocation in accordance with the practice und	This action is non-final. wance except for formal matt	•	erits is
Disposition of Claims			
4) Claim(s) 1-23 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) Claim(s) 14-23 is/are allowed. 6) Claim(s) 1 and 13 is/are rejected. 7) Claim(s) 2-12 is/are objected to. 8) Claim(s) are subject to restriction and Application Papers 9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the corestriction is objected to by the example 20 including the corestriction is objected to by the example 21 including the corestriction is objected to by the example 22 including the corestriction is objected to by the example 24 including the corestriction is objected to by the example 24 including the corestriction is objected to by the example 25 includ	drawn from consideration. ad/or election requirement. hiner. accepted or b) □ objected to the drawing(s) be held in abeyar rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Sta	ige
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB	Paper No(s	summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-15	2)
Paper No(s)/Mail Date 12/8/03.	6) Other:	•	•

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DETAILED ACTION

Claim Objections

Claim 2 is no further limiting. This limitation is already in claim 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Musolfet al. (2004/0180465) in view of the following comments.

Re claim 1, Musolf et al. disclose providing a semiconductor substrate (120); forming a layer (135) over the semiconductor substrate; forming an opening within the layer; forming an insulating layer (145) over the layer.

Musolf et al. do not specifically disclose forming the insulating layer at approximately atmospheric pressure.

One of ordinary skill in the art would have been led to the recited pressure through routine experimentation to achieve a desired rate of deposition. In addition, the selection of the pressure, its obvious because it is a matter of determining optimum process conditions by routine experimentation with a limited number of species of result effective variables. These claims are prima facie obvious without showing that the claimed ranges achieve unexpected results relative to the prior art range. In re-

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general conditions is obvious).

Woodruff, 16 USPQ2d 1935, 1937 (Fed. Cir. 1990). See also In re Huang, 40 USPQ2d 1685, 1688 (Fed. Cir. 1996)(claimed ranges or a result effective variable, which do not overlap the prior art ranges, are unpatentable unless they produce a new and unexpected result which is different in kind and not merely in degree from the results of the prior art). See also In re Boesch, 205 USPQ 215 (CCPA) (discovery of optimum value of result effective variable in known process is ordinarily within skill or art) and In re Aller, 105 USPQ 233 (CCPA 1995) (selection of optimum ranges within prior art

Note that the specification contains no disclosure of either the critical nature of the claimed pressure or any unexpected results arising therefrom. Where patentability is said to be based upon particular chosen pressure or upon another variable recited in a claim, the Applicant must show that the chosen pressure are critical. *In re Woodruf*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

Re claim 13, Musolf et al. disclose wherein forming the layer over the semiconductor substrate comprises forming a conductive layer.

Allowable Subject Matter

Claims 3-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 14-23 are allowed.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michelle Estrada whose telephone number is 571-272-

1858. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 571-272-

2800.

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Michelle Estrada
Patent Examiner

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ME

December 12, 2005